

Aviation Maintenance Technology (AMT, AVAC, & AVPC)

Aviation Maintenance Technology (AMT)

The Aviation Maintenance Technology program provides students with the skills needed to keep aircraft operating safely and efficiently by servicing, repairing, and overhauling aircraft components and systems. Coursework covers every system of today's aircraft.

Graduates of the program earn an Associate of Applied Science degree and are prepared to take the FAA licensing tests for Airframe mechanic and Powerplant mechanic.

Aviation Mechanics Airframe Certificate (AVAC)

The Aviation Mechanics Airframe Certificate includes the study of aircraft structures and hydraulic, electrical, and landing gear systems. Lab experiences include aircraft inspection, troubleshooting, and repair.

Following successful completion of the Airframe Certificate requirements, students may take Federal Aviation Administration (FAA) licensing tests. Certification requirements are subject to current FAA requirements and may change without notice.

Aviation Mechanics Powerplant Certificate (AVPC)

The Aviation Mechanics Powerplant Certificate includes the study of all types of aircraft engines (small and large piston, and jet), along with the study of engine systems and propellers. Lab experiences include inspection, troubleshooting, and repair of aircraft engines.

Following successful completion of the certificate, students may take Federal Aviation Administration (FAA) licensing tests. Certification requirements are subject to current FAA regulations and may change without notice.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit our Admissions Page (<http://www.cincinnati-state.edu/academics/admission>)

Aviation Maintenance Technology (AMT)

Semester 1		Lec	Lab	Credits
AMT 100	Aviation Standard Practices (B)	4	6	6
AMT 105	Aircraft Orientation (B)	2	5	4
MAT 121	Technical Algebra and Geometry with Statistics (G)	2	2	3
AMT 110	Aircraft Electricity (B)	3	3	4
FYE 1XX	First Year Experience Elective (B)	1	0	1

AMT 115	Aircraft Weight and Balance (B)	3	3	4
Semester 2				
AMT 135	Aircraft Landing Gear Systems (T)	3	5	5
AMT 140	Airframe Electrical Systems (T)	4	4	6
PHY 115	Aviation Maintenance Physics (G)	3	3	4
AMT 120	Aircraft Non-Metal Structures (T)	3	4	5
AMT 130	Aircraft Welding Processes (T)	2	2	3
Semester 3				
AMT 125	Aircraft Metal Structures (T)	3	5	5
AMT 145	Airframe Electronic Systems (T)	2	1	2
AMT 150	Airframe Systems (T)	3	3	4
AMT 155	Airframe Assembly and Rigging (T)	3	4	5
AMT 160	Airframe Inspection (T)	1	3	2
ENG 101	English Composition 1 (G)	3	0	3
Semester 4				
AMT 191	Part-Time Cooperative Education 1: Aviation Maintenance Technology (T)	1	20	1
ENG 104	English Composition 2: Technical Communication (G)	3	0	3
AMT 201	Powerplant Maintenance 1 (T)	4	6	6
AMT 215	Aircraft Propellers (T)	3	3	4
Semester 5				
AMT 192	Part-Time Cooperative Education 2: Aviation Maintenance Technology (T)	1	20	1
AMT 202	Powerplant Maintenance 2 (T)	4	6	6
AMT 205	Starting and Ignition Systems (T)	3	4	5
Semester 6				
AMT 193	Part-Time Cooperative Education 3: Aviation Maintenance Technology (T)	1	20	1
AMT 203	Powerplant Maintenance 3 (T)	4	6	6
AMT 210	Engine Fuel and Lubrication Systems (T)	4	6	6
PHI 110	Ethics (G)	3	0	3
Total Credits:		76	144	108

Electives

First Year Experience Elective

FYE 100	College Survival Skills	1
FYE 105	College Success Strategies	2
FYE 110	Community College Experience	3

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Aviation Mechanics Airframe Certificate (AVAC)

Semester 1		Lec	Lab Credits	
AMT 100	Aviation Standard Practices	4	6	6
AMT 105	Aircraft Orientation	2	5	4
AMT 110	Aircraft Electricity	3	3	4
AMT 115	Aircraft Weight and Balance	3	3	4
MAT 121	Technical Algebra and Geometry with Statistics	2	2	3
Semester 2				
AMT 120	Aircraft Non-Metal Structures	3	4	5
AMT 130	Aircraft Welding Processes	2	2	3
AMT 135	Aircraft Landing Gear Systems	3	5	5
AMT 140	Airframe Electrical Systems	4	4	6
PHY 115	Aviation Maintenance Physics	3	3	4
Semester 3				
AMT 125	Aircraft Metal Structures	3	5	5
AMT 145	Airframe Electronic Systems	2	1	2
AMT 150	Airframe Systems	3	3	4
AMT 155	Airframe Assembly and Rigging	3	4	5
AMT 160	Airframe Inspection	1	3	2
ENG 101	English Composition 1	3	0	3
Total Credits:		44	53	65

james.schmid@cincinnati.state.edu

Co-op Coordinator

Professor Kimberly Richards, PhD
kimberly.richards@cincinnati.state.edu

Aviation Mechanics Powerplant Certificate (AVPC)

Semester 1		Lec	Lab Credits	
AMT 100	Aviation Standard Practices	4	6	6
AMT 105	Aircraft Orientation	2	5	4
AMT 110	Aircraft Electricity	3	3	4
AMT 115	Aircraft Weight and Balance	3	3	4
MAT 121	Technical Algebra and Geometry with Statistics	2	2	3
Semester 2				
AMT 201	Powerplant Maintenance 1	6	4	8
AMT 215	Aircraft Propellers	2	2	4
PHY 115	Aviation Maintenance Physics	3	3	4
Semester 3				
AMT 202	Powerplant Maintenance 2	5	5	7
AMT 205	Starting and Ignition Systems	3	4	5
ENG 101	English Composition 1	3	0	3
Semester 4				
AMT 203	Powerplant Maintenance 3	4	2	5
AMT 210	Engine Fuel and Lubrication Systems	5	5	7
Total Credits:		45	44	64

Faculty

Program Chair/Advisor

Professor James Schmid, FAA A&P, ME